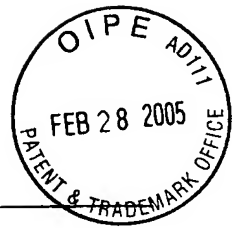**Amendment and Response**
Applicant: William J. Allen
Serial No.: 10/697,830
Filed: October 30, 2003
Docket No.: 10015701-1
Title: IMAGE DISPLAY SYSTEM AND METHOD

IN THE CLAIMS

Please add claims 33-38.

Please amend claims 1-3, 7, 11, 14-16, 20, 24, 27, and 30 as follows:

1.   (Currently Amended) A system for displaying an image, the system comprising:

a first light modulator including a first pixel array oriented at a first angle; and

at least a second light modulator including a second pixel array oriented at a second angle different from the first angle,

wherein the first pixel array is adapted to produce a first image portion oriented at the first angle, and the second pixel array is adapted to produce a second image portion oriented at the second angle, and

wherein the first image portion is displayed at the first angle and the second image portion is displayed at the second angle~~are combined to display the image~~.

2.   (Currently Amended) ~~The system of claim 1~~A system for displaying an image, the system comprising:

a first light modulator including a first pixel array oriented at a first angle; and

at least a second light modulator including a second pixel array oriented at a second angle different from the first angle,

wherein the first pixel array is adapted to produce a first image portion oriented at the first angle, and the second pixel array is adapted to produce a second image portion oriented at the second angle,

wherein the first image portion and the second image portion are combined to display the image, and

wherein the first angle includes an orthogonal angle and the second angle includes a non-orthogonal angle.

3.   (Currently Amended) ~~The system of claim 1~~A system for displaying an image, the system comprising:

a first light modulator including a first pixel array oriented at a first angle; and

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at least a second light modulator including a second pixel array oriented at a second angle different from the first angle,

wherein the first pixel array is adapted to produce a first image portion oriented at the first angle, and the second pixel array is adapted to produce a second image portion oriented at the second angle,

wherein the first image portion and the second image portion are combined to display the image, and

wherein the first angle includes a first non-orthogonal angle and the second angle includes a second non-orthogonal angle different from the first non-orthogonal angle.

4.   (Original) The system of claim 1, wherein the first angle includes one of approximately zero degrees and approximately 30 degrees, and the second angle includes approximately 45 degrees.

5.   (Original) The system of claim 1, wherein the first image portion includes a first color of the image, and the second image portion includes a second color and a third color of the image.

6.   (Original) The system of claim 5, wherein the first color of the image includes red, the second color of the image includes green, and the third color of the image includes blue.

7.   (Currently Amended) The system of claim 1, further comprising:

a third light modulator including a third pixel array oriented at a third angle different from the first angle and the second angle,

wherein the third pixel array is adapted to produce a third image portion oriented at the third angle, and

wherein the first image portion is displayed at the first angle, the second image portion is displayed at the second angle, and the third image portion is displayed at the third angle are combined to display the image.

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8.   (Original) The system of claim 7, wherein the first angle includes one of approximately zero degrees and approximately 30 degrees, the second angle includes approximately 45 degrees, and the third angle includes approximately 60 degrees.

9.   (Original) The system of claim 7, wherein the first image portion includes a first color of the image, the second image portion includes a second color of the image, and the third image portion includes a third color of the image.

10.   (Original) The system of claim 9, wherein the first color of the image includes red, the second color of the image includes green, and the third color of the image includes blue.

11.   (Currently Amended) ~~The system of claim 1~~A system for displaying an image, the system comprising:
        a first light modulator including a first pixel array oriented at a first angle; and
        at least a second light modulator including a second pixel array oriented at a second angle different from the first angle,
        wherein the first pixel array is adapted to produce a first image portion oriented at the first angle, and the second pixel array is adapted to produce a second image portion oriented at the second angle,
        wherein the first image portion and the second image portion are combined to display the image, and
        wherein the first light modulator is adapted to receive a first image data set for the first image portion, and the second light modulator is adapted to receive a second image data set for the second image portion, wherein the first image data set is oriented at the first angle and the second image data set is oriented at the second angle.

12.   (Original) The system of claim 11, further comprising:
        an image processing unit adapted to receive image data for the image and produce the first image data set at the first angle and the second image data set at the second angle.

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13.   (Original) The system of claim 12, wherein the image data for the image is oriented at an orthogonal angle.

14.   (Currently Amended) A method of displaying an image, the method comprising:

producing a first image portion with a first pixel array oriented at a first angle;

producing a second image portion with a second pixel array oriented at a second angle different from the first angle; and

combining the first image portion and the second image portion to display the image, including displaying the first image portion at the first angle and displaying the second image portion at the second angle.

15.   (Currently Amended) ~~The method of claim 14~~A method of displaying an image, the method comprising:

producing a first image portion with a first pixel array oriented at a first angle;

producing a second image portion with a second pixel array oriented at a second angle different from the first angle; and

combining the first image portion and the second image portion to display the image,

wherein the first angle includes an orthogonal angle and the second angle includes a non-orthogonal angle.

16.   (Currently Amended) ~~The method of claim 14~~A method of displaying an image, the method comprising:

producing a first image portion with a first pixel array oriented at a first angle;

producing a second image portion with a second pixel array oriented at a second angle different from the first angle; and

combining the first image portion and the second image portion to display the image,

wherein the first angle includes a first non-orthogonal angle and the second angle includes a second non-orthogonal angle different from the first non-orthogonal angle.

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17.   (Original) The method of claim 14, wherein the first angle includes one of approximately zero degrees and approximately 30 degrees, and the second angle includes approximately 45 degrees.

18.   (Original) The method of claim 14, wherein producing the first image portion includes displaying a first color of the image, and producing the second image portion includes displaying a second color and a third color of the image.

19.   (Original) The method of claim 18, wherein the first color of the image includes red, the second color of the image includes green, and the third color of the image includes blue.

20.   (Currently Amended) The method of claim 14, further comprising:
        ~~producing a third image portion with a third pixel array oriented at a third angle different from the first angle and the second angle,~~
        ~~wherein combining the first image portion and the second image portion further includes combining the first image portion, the second image portion, and the third image portion to display the image~~
        producing a third image portion with a third pixel array oriented at a third angle different from the first angle and the second angle; and
        combining the first image portion, the second image portion, and the third image portion to display the image, including displaying the first image portion at the first angle, displaying the second image portion at the second angle, and displaying the third image portion at the third angle.

21.   (Original) The method of claim 20, wherein the first angle includes one of approximately zero degrees and approximately 30 degrees, the second angle includes approximately 45 degrees, and the third angle includes approximately 60 degrees.

22.   (Original) The method of claim 20, wherein producing the first image portion includes displaying a first color of the image, producing the second image portion includes

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displaying a second color of the image, and producing the third image portion includes displaying a third color of the image.

23.   (Original) The method of claim 22, wherein the first color of the image includes red, the second color of the image includes green, and the third color of the image includes blue.

24.   (Currently Amended) ~~The method of claim 14~~A method of displaying an image, the method comprising:

     producing a first image portion with a first pixel array oriented at a first angle;

     producing a second image portion with a second pixel array oriented at a second angle different from the first angle; and

     combining the first image portion and the second image portion to display the image, the method further comprising:

     receiving a first image data set oriented at the first angle for the first image portion; and

     receiving a second image data set oriented at the second angle for the second image portion.

25.   (Original) The method of claim 24, further comprising:

     receiving image data for the image;

     producing the first image data set for the first image portion from the image data, including orienting the first image data set at the first angle; and

     producing the second image data set for the second image portion from the image data, including orienting the second image data set at the second angle.

26.   (Original) The method of claim 25, wherein the image data for the image is oriented at an orthogonal angle.

27.   (Currently Amended) A system for displaying an image, the system comprising:

     means for producing a first image portion oriented at a first angle;

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means for producing a second image portion oriented at a second angle different from the first angle; and

means for <u>displaying the first image portion at the first angle and the second image portion at the second angle</u>~~combining the first image portion and the second image portion to display the image~~.

28.   (Original) The system of claim 27, wherein means for producing the first image portion includes a first light modulator including a first pixel array oriented at the first angle, and means for producing the second image portion includes a second light modulator including a second pixel array oriented at the second angle.

29.   (Original) The system of claim 27, wherein means for producing the first image portion includes means for displaying a first color of the image, and means for producing the second image portion includes means for displaying a second color and a third color of the image.

30.   (Currently Amended) The system of claim 27, further comprising:

~~means for producing a third image portion oriented at a third angle different from the first angle and the second angle,~~

~~wherein means for combining the first image portion and the second image portion further includes means for combining the first image portion, the second image portion, and the third image portion to display the image~~

means for producing a third image portion oriented at a third angle different from the first angle and the second angle; and

means for displaying the first image portion at the first angle, the second image portion at the second angle, and the third image portion at the third angle.

31.   (Original) The system of claim 30, wherein means for producing the first image portion includes a first light modulator including a first pixel array oriented at the first angle, means for producing the second image portion includes a second light modulator including a second pixel array oriented at the second angle, and means for producing the third image

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portion includes a third light modulator including a third pixel array oriented at the third angle.

32.   (Original) The system of claim 30, wherein means for producing the first image portion includes means for displaying a first color of the image, means for producing the second image portion includes means for displaying a second color of the image, and means for producing the third image portion includes means for displaying a third color of the image.

33.   (New) The system of claim 1, wherein the first angle includes an orthogonal angle and the second angle includes a non-orthogonal angle.

34.   (New) The system of claim 1, wherein the first angle includes a first non-orthogonal angle and the second angle includes a second non-orthogonal angle different from the first non-orthogonal angle.

35.   (New) The method of claim 14, wherein the first angle includes an orthogonal angle and the second angle includes a non-orthogonal angle.

36.   (New) The method of claim 14, wherein the first angle includes a first non-orthogonal angle and the second angle includes a second non-orthogonal angle different from the first non-orthogonal angle.

37.   (New) The system of claim 27, wherein the first angle includes an orthogonal angle and the second angle includes a non-orthogonal angle.

38.   (New) The system of claim 27, wherein the first angle includes a first non-orthogonal angle and the second angle includes a second non-orthogonal angle different from the first non-orthogonal angle.

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